RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	/0/519.135,
Source:	PG/10
Date Processed by STIC:	1/14/05

ENTERED



PCT10

RAW SEQUENCE LISTING DATE: 01/14/2005 PATENT APPLICATION: US/10/519,135 TIME: 10:08:59

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Output Set: N:\CRF4\01142005\J519135.raw

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3 <110> APPLICANT: The Australian National University
      5 <120> TITLE OF INVENTION: METHOD OF PRODUCING PLANTS HAVING ENHANCED TRANSPIRATION
EFFICIENCY AND
              PLANTS PRODUCED THEREFROM
      8 <130> FILE REFERENCE: 94948/MRO
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/519,135
C--> 10 <141> CURRENT FILING DATE: 2004-12-22
     10 <150> PRIOR APPLICATION NUMBER: AU PS3339
     11 <151> PRIOR FILING DATE: 2002-07-02
     13 <160> NUMBER OF SEQ ID NOS: 45
     15 <170> SOFTWARE: PatentIn version 3.1
     17 <210> SEQ ID NO: 1
     18 <211> LENGTH: 3176
     19 <212> TYPE: DNA
    20 <213> ORGANISM: Arabidopsis thaliana ERECTA allele
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1680

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103 gtcgtccaac attctcttgg acaaagactt agaggctcgt ttgacagatt ttggaatagc
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130 <210> SEQ ID NO: 2
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133 <213> ORGANISM: Arabidopsis thaliana ERECTA allele
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145 Ile Lys Lys Ser Phe Lys Asp Val Asn Asn Val Leu Tyr Asp Trp Thr
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149 Thr Ser Pro Ser Ser Asp Tyr Cys Val Trp Arg Gly Val Ser Cys Glu
153 Asn Val Thr Phe Asn Val Val Ala Leu Asn Leu Ser Asp Leu Asn Leu
154 65
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157 Asp Gly Glu Ile Ser Pro Ala Ile Gly Asp Leu Lys Ser Leu Leu Ser
161 Ile Asp Leu Arg Gly Asn Arg Leu Ser Gly Gln Ile Pro Asp Glu Ile
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165 Gly Asp Cys Ser Ser Leu Gln Asn Leu Asp Leu Ser Phe Asn Glu Leu
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169 Ser Gly Asp Ile Pro Phe Ser Ile Ser Lys Leu Lys Gln Leu Glu Gln
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181	Ser	Gly	Glu	Ile	Pro	Arg	Leu	Ile	Tyr	Trp	Asn	Glu	Val	Leu	Gln	Tyr
182				180					185					190		
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190		210					215					220				
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194	225					230					235					240
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221	Glu	Leu	Asn	Asp	Asn	His	Leu	Thr	Gly	His	Ile	Pro	Pro	Glu	Leu	Gly
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225	Lys	Leu	Thr	Asp	Leu	Phe	Asp	Leu	Asn	Val	Ala	Asn	Asn	Asp	Leu	Glu
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229	Gly	Pro	Ile	Pro	Asp	His	Leu	Ser	Ser	Cys	Thr	Asn	Leu	Asn	Ser	Leu
230		370					375					380				
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238	Lys	Leu	Glu	Ser	Met 405	390 Thr	Tyr	Leu	Asn	Leu 410	395 Ser	Ser	Asn	Asn	Ile 415	400 Lys
238 241	Lys	Leu	Glu	Ser Pro	Met 405	390 Thr	Tyr	Leu	Asn Arg	Leu 410	395 Ser	Ser	Asn	Asn Asp	Ile	400 Lys
238 241 242	Lys Gly	Leu Pro	Glu Ile	Ser Pro 420	Met 405 Val	390 Thr Glu	Tyr Leu	Leu Ser	Asn Arg 425	Leu 410 Ile	395 Ser Gly	Ser Asn	Asn Leu	Asn Asp 430	Ile 415 Thr	400 Lys Leu
238 241 242 245	Lys Gly	Leu Pro	Glu Ile Ser	Ser Pro 420	Met 405 Val	390 Thr Glu	Tyr Leu	Leu Ser Asn	Asn Arg 425	Leu 410 Ile	395 Ser Gly	Ser Asn	Asn Leu Ser	Asn Asp 430	Ile 415	400 Lys Leu
238 241 242 245 246	Lys Gly Asp	Leu Pro Leu	Glu Ile Ser 435	Ser Pro 420 Asn	Met 405 Val Asn	390 Thr Glu Lys	Tyr Leu Ile	Leu Ser Asn 440	Asn Arg 425 Gly	Leu 410 Ile Ile	395 Ser Gly Ile	Ser Asn Pro	Asn Leu Ser 445	Asn Asp 430 Ser	Ile 415 Thr Leu	400 Lys Leu Gly
238 241 242 245 246 249	Lys Gly Asp	Leu Pro Leu Leu	Glu Ile Ser 435	Ser Pro 420 Asn	Met 405 Val Asn	390 Thr Glu Lys	Tyr Leu Ile Lys	Leu Ser Asn 440	Asn Arg 425 Gly	Leu 410 Ile Ile	395 Ser Gly Ile	Ser Asn Pro Arg	Asn Leu Ser 445	Asn Asp 430 Ser	Ile 415 Thr	400 Lys Leu Gly
238 241 242 245 246 249 250	Lys Gly Asp Asp	Leu Pro Leu Leu 450	Glu Ile Ser 435 Glu	Ser Pro 420 Asn His	Met 405 Val Asn Leu	390 Thr Glu Lys Leu	Tyr Leu Ile Lys 455	Leu Ser Asn 440 Met	Asn Arg 425 Gly Asn	Leu 410 Ile Ile Leu	395 Ser Gly Ile Ser	Ser Asn Pro Arg 460	Asn Leu Ser 445 Asn	Asn Asp 430 Ser His	Ile 415 Thr Leu Ile	400 Lys Leu Gly
238 241 242 245 246 249 250 253	Lys Gly Asp Asp Gly	Leu Pro Leu Leu 450	Glu Ile Ser 435 Glu	Ser Pro 420 Asn His	Met 405 Val Asn Leu	390 Thr Glu Lys Leu Asp	Tyr Leu Ile Lys 455	Leu Ser Asn 440 Met	Asn Arg 425 Gly Asn	Leu 410 Ile Ile Leu	395 Ser Gly Ile Ser Arg	Ser Asn Pro Arg 460	Asn Leu Ser 445 Asn	Asn Asp 430 Ser His	Ile 415 Thr Leu	400 Lys Leu Gly Thr
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238 241 242 245 246 249 250 253 254 257 258 261 262	Lys Gly Asp Asp Gly 465 Asp Gln	Leu Pro Leu Leu 450 Val Leu Leu	Glu Ile Ser 435 Glu Val Ser Gln	Ser Pro 420 Asn His Pro Asn Asn 500	Met 405 Val Asn Leu Gly Asn 485 Ile	390 Thr Glu Lys Leu Asp 470 Asp	Tyr Leu Ile Lys 455 Phe Ile Leu	Leu Ser Asn 440 Met Gly Ser Leu	Asn Arg 425 Gly Asn Asn Gly Arg 505	Leu 410 Ile Ile Leu Leu Pro 490 Leu	395 Ser Gly Ile Ser Arg 475 Ile Glu	Ser Asn Pro Arg 460 Ser Pro Asn	Asn Leu Ser 445 Asn Ile Glu Asn	Asn Asp 430 Ser His Met Glu Asn 510	Ile 415 Thr Leu Ile Glu Leu 495 Leu	400 Lys Leu Gly Thr Ile 480 Asn
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238 241 242 245 246 249 250 253 254 257 258 261 262 265 266	Lys Gly Asp Gly 465 Asp Gln Gly	Leu Pro Leu 450 Val Leu Leu Asn	Glu Ile Ser 435 Glu Val Ser Gln Val 515	Ser Pro 420 Asn His Pro Asn Asn Soo Gly	Met 405 Val Asn Leu Gly Asn 485 Ile Ser	390 Thr Glu Lys Leu Asp 470 Asp Ile Leu	Tyr Leu Ile Lys 455 Phe Ile Leu Ala	Leu Ser Asn 440 Met Gly Ser Leu Asn 520	Asn Arg 425 Gly Asn Asn Gly Arg 505 Cys	Leu 410 Ile Ile Leu Pro 490 Leu	395 Ser Gly Ile Ser Arg 475 Ile Glu Ser	Ser Asn Pro Arg 460 Ser Pro Asn Leu	Asn Leu Ser 445 Asn Ile Glu Asn Thr 525	Asn Asp 430 Ser His Met Glu Asn 510 Val	Ile 415 Thr Leu Ile Glu Leu 495 Leu	400 Lys Leu Gly Thr Ile 480 Asn Thr

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278		_			565		_		_	570	_	_			575	
281 282	Ser	Ile	Ser	Arg 580	Ala	Ala	Ile	Leu	Gly 585	Ile	Ala	Ile	Gly	Gly 590	Leu	Val
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298	~1				645	** - 1		•		650			•	~	655	B
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357	Lys	Asp	Leu	Gly	Val	Val	Lys	Lys	Val	Phe	Gln	Leu	Ala	Leu	Leu	Cys
358					885					890					895	
361	Thr	Lys	Arg	Gln	Pro	Asn	Asp	Arg	Pro	Thr	Met	His	Gln	Val	Thr	Arg
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Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01142005\J519135.raw

370 930 935 940 373 Leu Lys Thr Pro His Ser Val Asn Cys Ser Ser Met Ser Ala Ser Asp 955 377 Ala Gln Leu Phe Leu Arg Phe Gly Gln Val Ile Ser Gln Asn Ser Glu 378 965 970 381 <210> SEQ ID NO: 3 382 <211> LENGTH: 3000 383 <212> TYPE: DNA 384 <213> ORGANISM: rice ERECTA 386 <400> SEQUENCE: 3 60 387 atggcggcgg cgagggcgcc gtggctgtgg tggtgggtgg tggtggttgt tggtgtggcg 389 gtggcggagg cggcctccgg aggaggagga gggggagatg gggaggggaa ggcgctgatg 120 391 ggcgtgaagg ccggtttcgg gaacgcggcc aacgcgctcg tcgactggga cggcgccc 180 393 gaccactgcg cgtggcgcgg cgtcacctgc gacaacgcct ccttcgccgt cctcgccctg 240 300 395 aacttgtcaa atctaaacct aggaggtgag atctcgccgg ccatcggaga gctcaagaat 397 ctacaqttcg ttgatctcaa ggggaacaag ctcactggcc aaatcccaga tgagattggg 360 399 gactgcatct ccttaaaata tttggatttg tctggcaact tgctgtatgg agacatcccc 420 401 ttctccatct ccaagctcaa gcagcttgag gagctgattt tgaagaacaa ccagctcacg 480 403 ggacccatcc cttccacatt gtcccaaatt ccaaatctca agacattgga cctggcacag 540 405 aaccagetta caggegatat cecaaggete atatactgga atgaagttet geaataceta 600 407 ggtttgaggg gtaactcact gactggaact ttgtcacctg acatgtgcca actgactggc 660 409 ctgtggtact ttgatgtaag gggaaacaat ctcacaggga ccattccaga gagcataggg 720 411 aactgcacca gctttgagat tctggacatt tcgtataacc aaatctctgg agaaatacct 780 413 tacaacatag gctttcttca agtagccaca ctgtcacttc aaggaaatag actgactggg 840 900 415 aaaattccag atgtgattgg cctgatgcaa gctcttgctg ttctagacct gagtgagaac 960 417 gagctggtag ggcccattcc ttctatactg ggcaatctat cctatactgg aaaactatat 419 ttacatggga acaaacttac tggagtcata ccgccggagc ttgggaacat gagtaaactt 1020 421 agetacetae aactgaatga taatgaattg gtgggcacaa ttecagcaga gettggcaaa 1080 423 cttgaagagc tttttgaact aaatcttgcc aacaacaatc ttcaaggtcc tattcctgca 1140 425 aacatcagtt cttgcactgc tctaaacaaa ttcaatgttt atggcaataa gctaaatggt 1200 427 tetatteetg etggttteea gaagttggag agtetgaett aettgaacet atetteaaae 1260 429 aatttcaaag gcaatattcc ttctgagctt ggtcacatca tcaacttgga cacattggat 1320 431 ctttcctaca atgaattctc tggaccagtt cctgctacca ttggtgatct agagcacctt 1380 433 cttgaactga atttgagtaa gaaccatctt gatgggccag ttcctgctga gtttggaaac 1440 435 ttqaqaaqcq tccaaqtaat tqatatqtcc aacaacaact tatctqqtag tctgcccgaq 1500 437 gaacttggac aacttcaaaa ccttgatagc ctgattctta acaacaacaa tttggttggg 1560 439 gagatecetg eteaattgge caactgette agettaaata acettgeatt teaggaattt 1620 1680 441 gtcatacaac aatttatctg gacatgtccc gatggcaaag aacttctcga aattcccaat 443 ggaaagcatc ttctaatttc tgattgcaac cagtacataa atcataaatg cagcttcttg 1740 445 ggtaatccat tactgcatgt ttactgccaa gattccagct gtggacactc tcatggacaa 1800 447 agagttaata tttcaaagac agcaattgct tgcattatct taggctttat catattgctc 1860 449 tgcgttctgc tgttggctat atataaaaca aatcaaccac agccacttgt caaaggatcc 1920 451 gataagccag tgcaaggacc tccaaagcta gttgttctcc agatggacat ggctatccat 1980 453 acttacgagg acatcatgag gctgacagag aatttgagcg agaaatacat cattggctat 2040 2100 455 ggcgcctcaa gcactgtcta caaatgtgaa ctcaagagcg gcaaggccat tgctgtcaag 457 cggctttaca gtcagtataa ccatagcctc cgagagtttg aaacagaact agagacaatt 2160 459 ggcagcatac ggcacaggaa tcttgttagc ctccatggct tctcgctatc tccacatgga 2220 2280 461 aacttgetet tetatgatta eatggaaaat ggtteettgt gggatettet eeaeggteea 463 tcaaagaaag tgaagctcaa ctgggacaca agactgagga tcgcggtcgg agctgcacaa 2340

RAW SEQUENCE LISTING ERROR SUMMARY

DATE: 01/14/2005

PATENT APPLICATION: US/10/519,135

TIME: 10:09:00

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01142005\J519135.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:13; N Pos. 62 Seq#:23; N Pos. 529 Seq#:38; N Pos. 138 VERIFICATION SUMMARY

DATE: 01/14/2005

PATENT APPLICATION: US/10/519,135

TIME: 10:09:00

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01142005\J519135.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:1851 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:60 L:2251 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:480

L:2586 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:120